

SUBCARRIER PUNCTURING IN COMMUNICATION SYSTEMS

ABSTRACT

A circuit and method provides subcarrier puncturing by placing no information in subcarriers that suffer from channel impairments where they cannot deliver information. If no energy is placed in these subcarriers, then the transmitted power may be re-allocated to the information carrying subcarriers to increase the Signal-to-Noise Ratio (SNR) at the target node. Or, energy may be placed in subcarriers that suffer from channel impairments, but the PAPR of the OFDM symbol may be reduced.